ENVIRONMENTAL CHEMISTS

Date of Report: 01/07/03 Date Received: 12/27/02

Project: Metro Self Monitor, PO# M89830, F&BI 212200

Date Extracted: 01/06/03 Date Analyzed: 01/06/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

(4)	Sample ID Chromium Copper Nickel Zinc
	M89830 0.19 0.35 0.26 0.65
	212200-01
	Method Blank <0.05 <0.05 <0.05

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Date of Report: 01/07/03 Date Received: 12/27/02

Project: Metro Self Monitor, PO# M89830, F&BI 212200

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 301020-01 (Duplicate)

			Reporting	Sampl	e I	Duplicat	Relative e Percent	Acceptan	ice .
1000	Analyte		Units	Resul		Result	Difference	and the second second second	
Ī	Chromium	n	ng/L (ppm)	0.11	ALASTI:	0.05	a	0-20	
	Copper	r	ng/L (ppm)	1.1		1.1	0	0-20	
	Nickel	n	ng/L (ppm)	< 0.05		< 0.05	nm	0-20	
	Zinc	n	ng/L (ppm)	0.15		0.15	0	0-20	

Laboratory Code: 301020-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.11	81	50-150
Copper	mg/L (ppm)	2	1.1	91	50-150
Nickel	mg/L (ppm)	4	< 0.05	79	50-150
Zinc	mg/L (ppm)	2	0.15	81	50-150

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recov	ery Acceptance	e RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	96	97	80-120	1
Copper	mg/L (ppm)	2	97	99	80-120	2
Nickel	mg/L (ppm)	4	93	90	80-120	3
Zinc	mg/L (ppm)	2	91	87	80-120	4

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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SAMPLE CHAIN OF CUSTODY

1	1E	12	27/	02	BI

Send Report To G. Thompson	SAMPLERS (signature)		Page # of
Send Report To G. Promps	Val e	PO #	TURNAROUND TIME
Company Al Askan Coppen Works	PROJECT NAME/NO.	PO#	☐ Standard (2 Weeks) ☐ RUSH
Address 628 S. Handord So	METTO Self Monitor	M89830	Rush charges authorized by:
City, State, ZIP Stable LUA 98134	REMARKS		SAMPLE DISPOSAL Dispose after 30 days
Phone #26-382-4309 Fax #266-382-4309			☐ Return samples☐ Will call with instructions

				1 49					ANA	LYS	ES R	EQU	ESTI	ED				
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Or C210, 20					Notes	
m 59830	ol	12/27	10:00	H20	1													
-	ic.	•													,			

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by	G. Thompas	Ace	12/2/2	10:33
Received by:	Laura Hooper	FBI		
Relinquished by:				
Received by:				

FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 7, 2003

DUPLICATE COPY

INVOICE # 03ACU0107-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M89830, F&BI 212200 - Results of testing requested by Gerry Thompson for material submitted on December 27, 2002.

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 7, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 27, 2002 from the Metro Self Monitor, PO# M89830, F&BI 212200 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow for Michael Erdahl Project Manager

Enclosures ACU0107R.DOC